

APPLICATION NO. 09/242,525

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SHINICHI SATO

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EXAMINER
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ART UNIT PAPER NUMBER

1170

1711

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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/242,525	SATO ET AL.	ĺ
Office Action Summary	Examiner	Art Unit	
•	Rabon Sergent	1711	
The MAILING DATE of this communication app			9SS
Period for Reply		•	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thi will apply and will expire SIX (6) MO o, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this commoderate (35 U.S.C. § 133).	munication.
Status			
1) Responsive to communication(s) filed on 29 S	Ceptember 2004.		
	action is non-final.		
· 3) Since this application is in condition for allowa	nce except for formal mat	ters, prosecution as to the n	nerits is
closed in accordance with the practice under be	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>46,48 and 63</u> is/are pending in the ap	polication.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>46</u> is/are rejected.			
7) Claim(s) 48 and 63 is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er		
10)☐ The drawing(s) filed on is/are: a)☐ acc		by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			t 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attache	d Office Action or form PTO	<b>-</b> 152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign	nniority under 35 H.S.C.	8 119(a)-(d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	i priority under 66 6.6.6.	3 1 10(a) (b) of (i).	
1.☐ Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document		Application No	
3. Copies of the certified copies of the prio			tage
application from the International Burea	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies no	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	153)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) L Notice of	Informal Patent Application (PTO-1	٥٧)

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1. The Notice of Allowability of January 5, 2005 has been vacated. Prosecution on the merits has been reopened in view of the necessity of rejecting claim 46 over Barron et al. ('844). It is regretted that this issue has not been set forth earlier in prosecution.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claim 46 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Barron et al. ('844).

Barron et al. disclose the production of a polyurethane wherein an isocyanate terminated prepolymer is reacted with an aminosilane intermediate. See column 3, lines 37-49. The

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disclosed isocyanate terminated prepolymer is derived from the reaction of a polyisocyanate, which corresponds to applicants' compound (d), with a polyol, which corresponds to applicants' compound (c). See column 2, line 61 through column 3, line 24. Furthermore, based upon the isocyanate equivalent weight of the prepolymers disclosed within examples 1 and 8, the position is taken that the disclosed prepolymers possess an isocyanate content within applicants' claimed range. The disclosed aminosilane intermediate is derived from the reaction of an aminoalkylalkoxysilane, which corresponds to applicants' compound (a), with an acrylate, which corresponds to applicants' compound (b). See column 3, lines 50-56 and formula (a) within column 2.

- 4. Patentees disclose at column 2, line 67 through column 3, line 2 that at least about 1% of the isocyanate terminations of the prepolymer are reacted with the aminosilane intermediate. The position is taken that this disclosure encompasses and anticipates applicants' isocyanate index set forth within the last two lines of claim 46. However, if it is determined that this disclosure fails to be anticipatory, then the position is alternatively taken that the disclosure renders applicants' isocyanate index *prima facie* obvious. In view of the disclosure, one of ordinary skill would have reasonably expected that viable polyurethanes would result at any index range that satisfies the requirement that at least about 1% of the isocyanate terminations are reacted with the intermediate; therefore, one would have been motivated to operate at any index range that satisfies the aforementioned requirement.
- 5. Claims 48 and 63 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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With respect to claim 48, the claim requires that compound (a) possess two primary amino groups, or two secondary amino groups, or one primary amino group and one secondary amino group. Barron et al. fail to disclose or render obvious the use of such a compound having at least two functional amino groups.

With respect to claim 63, Barron et al. fail to disclose or render obvious the use of a compound that corresponds to applicants' compound (a).

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.

RABON SERGENT PRIMARY EXAMINER

R. Sergent April 6, 2005